

CLAIMS

1. A fluid dispenser device comprising: a body (1) incorporating a dispenser orifice (5); a reservoir (10) containing the fluid; and a dispenser member (15), such
5 as a metering valve or pump, for selectively dispensing the fluid contained in the reservoir (10), the device being characterized in that it further comprises a dose indicator comprising electronic display means (20), said display means (20) including a permanent display member
10 (21) that does not require any energy in order to keep the display unchanged, and that requires only a small amount of energy in order to change said display.
2. A device according to claim 1, in which the display
15 member (21) is of the liquid crystal display (LCD) type.
3. A device according to claim 1 or claim 2, in which the display member (21) includes bistable nematic crystals.
- 20 4. A device according to any preceding claim, in which the energy required to change the display is provided by a battery that is optionally rechargeable.
- 25 5. A device according to any one of claims 1 to 3, in which the energy required to change the display is created while the device is being actuated.
6. A device according to claim 5, in which the
30 interaction between two portions (10, 11; 1, 2) of the device moving relative to each other while the device is being actuated, is transformed by an electromechanical converter into an electric pulse used to change the display.
- 35 7. A device according to claim 6, in which said interaction involves one portion (10, 11) of the device

rubbing or striking against another portion (1, 2) of the device during actuation.

8. A device according to claim 7, in which the reservoir
5 (10) is displaceable relative to the body (1) of the
device during actuation, said body (1) including a
contactor (2) co-operating with said reservoir (10), the
interaction between said reservoir (10) and said
10 contactor (2) creating the electric pulse required to
change the display.

9. A device according to claim 7, in which a striker pin
(11) is displaced against a contactor (2) while the
device is being actuated, said contactor (2) being unable
15 to move relative to said body (1), and said striker pin
(11) co-operating with a spring (12).

10. A device according to any preceding claim, in which
said dose indicator indicates the number of doses of
20 fluid that have been dispensed or that remain to be
dispensed from the reservoir.

11. A dispenser according to any preceding claim, in
which said dose indicator is thin in structure so that it
25 is adaptable to a fluid dispenser device without having
to modify the outside dimensions thereof.
